

Test and Evaluation in the Midst of Conflict

**NDIA Test and Evaluation Conference
February 26, 2002**

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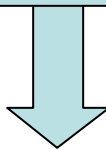
OUTLINE

- **New Complexities - New Roles**
- **What This Means To The Test And Evaluation Community**
- **The OSD Joint Test and Evaluation (JT&E) Program**
- **The Bottom Line**

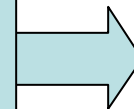


NEW COMPLEXITIES - NEW ROLES

- **War on Terrorism (Offensive)**
- **Homeland Defense (Defensive)**



- **Unconventional Threats**
- **New Missions:**
 - *Within CONUS.*
 - *Anti-Terrorists Operations (OCONUS).*
- **Different Environments, Scenarios and Players**





NEW COMPLEXITIES - NEW ROLES ***(Cont.)***

- **Meeting These New Roles Will Require:**
 - *Finding New Operational Capabilities For Existing Systems.*
 - *Developing New Systems.*
 - *Accelerating Delivery of Promising Systems.*
 - *Increased Interoperability Challenges:*
 - » **Interface with Multiple Military and Civilian Programs / Systems.**
 - *New Intelligence / Surveillance Systems.*
 - *New Technologies.*



WHAT THIS MEANS TO THE TEST AND EVALUATION COMMUNITY

- **Timeliness is an Issue**

Think Months — Not Years

- **Requires a New Approach to
Test and Evaluation**



THE ROLE OF T&E (Challenges)

TIMELINESS

- **We Can't Do Business as Usual**
- **Traditional Acquisition / T&E Model Does Not Work:**
 - *Quick Reaction Response Required.*
 - *Less Formal Documentation Requirements.*
 - *Less Formal, Parallel Approach to Testing.*
 - *More Quick Look Test Reports on Results (Don't Delay for Formal Report).*



THE ROLE OF T&E (Challenges)

NEW APPROACH TO TESTING

- **New Test Strategy Requiring:**
 - *Greater Use Of M&S.*
 - *Test Strategies Must Support Capability Improvements Rather Than Traditional Hard / Quantifiable Requirements.*
 - *New Test Techniques and Testing Locations.*
 - *New Approach to Define and Replicate Threats.*
- **Capability Testing Vice ORD/KPP**
- **Evaluation of Systems in Development to Identify Demonstrated Capabilities that Can be Delivered Early**
- **Support Operational Commands – Including the New Homeland Defense Command:**
 - *Testing New Uses for Existing Systems.*
 - *Assist in Buying Smart.*
- **More Demonstration / Experimentation**



T&E NEEDS TO BE INVOLVED

- **Even Though the Emphasis is on "FAST" – the Discipline / Expertise of the T&E Community is Needed to:**
 - *Ensure it Will Work in All Intended Environments.*
 - *Identify Needed Improvements.*
 - *Ensure it is Interoperable:*
 - » **All Services and Appropriate Federal, State and Local Agencies.**
 - *Ensure it is Safe.*



JOINT TEST & EVALUATION (JT&E) PROGRAM

- **Unique Program that Presents an Opportunity for T&E Involvement with the Ongoing National Effort**
- **The Only Test Program in the Department of Defense with a Focus on Improving Joint Operations for the Warfighter**
- **Applies the Rigor of Testing to Solutions for Joint Operational Problems**
- **Addressing Subject Matter that is Timely and Related to Ongoing Activities**



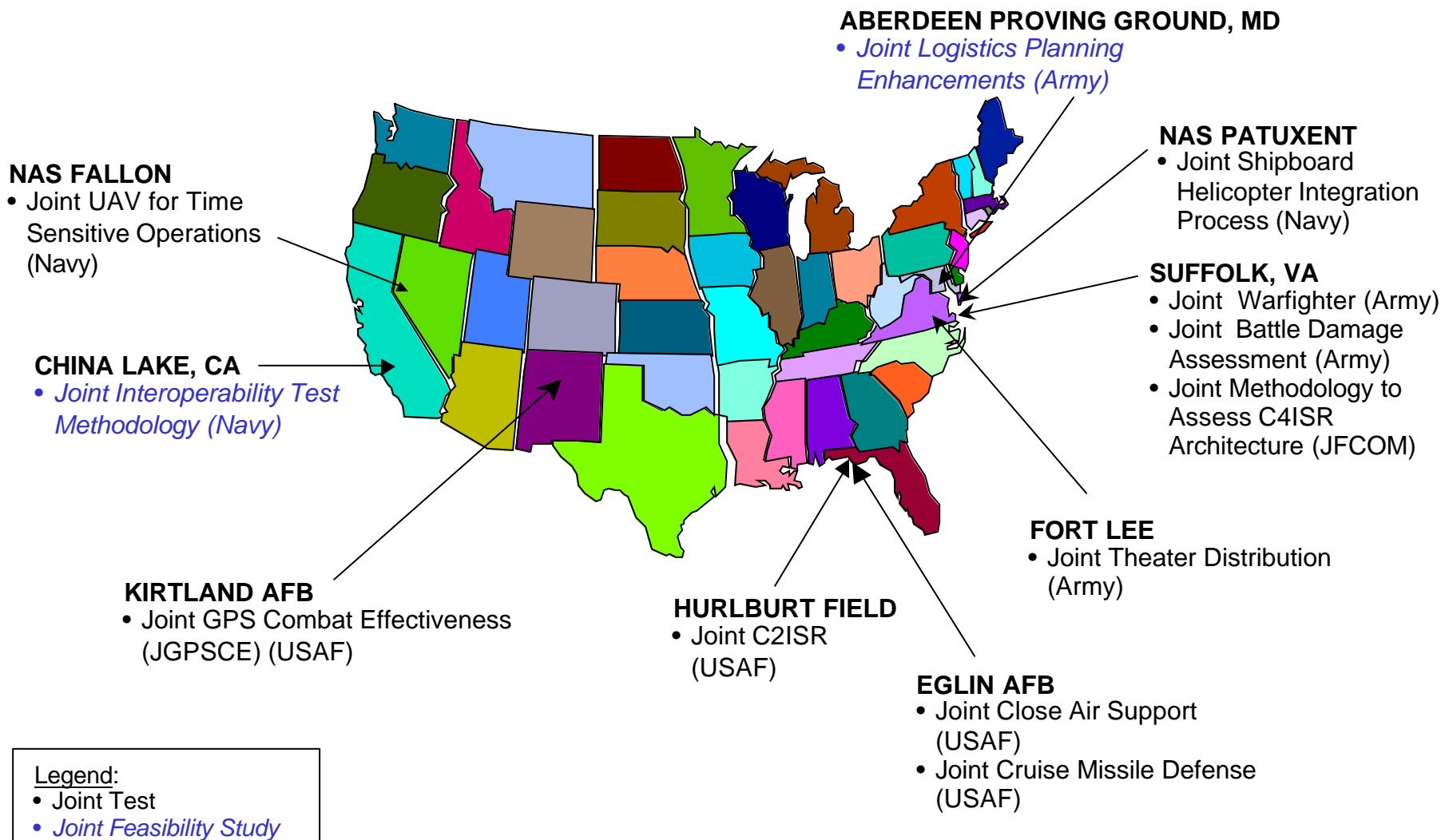
JT&E PROGRAM (Cont.)

- **OSD Sponsored Joint Program:**
 - *Program Management, Funding, Test Oversight.*
 - *Currently 10 Tests, 2 Feasibility Studies in 9 Locations.*
- **Program Purpose:**
 - *Finding Solutions for Joint Operational Problems.*
 - *Improving Test Tools and Methods for Testing.*
 - *Providing Feedback to the Acquisition and Joint Operations Communities.*
- **Three-Phased Program:**
 - *Nomination / Selection.*
 - *Joint Feasibility Study - One Year.*
 - *Joint Test & Evaluation - Averages Four Years from Charter.*
- **Results and Legacy Products:**
 - *Interim Results provided to Warfighter and Test Community.*
 - *Final Results Transitioned to Legacy Institutions (Warfighter and Test Communities).*



JT&E LOCATIONS

10 Tests, 2 Joint Feasibility Studies, 9 Locations





Joint Antiterrorism/Force Protection (JAT/FP)

- **Feasibility Study:**
 - *Selected in July 2000.*
 - *Conducted One Year Study.*
- **Joint Problem:**
 - *Installation Anti-terrorism Planning Process Inadequate.*
 - *Planning Tools and Training Lacking.*
- **Feasibility Study Results:**
 - *Developed Enhanced Installation Planning Process:*
 - » **Includes the Appropriate Planning Tools and Training for Developing an Anti-terrorism Plan.**
 - *Provides the Installation Commander an Improved Process to Plan for Defense Against Terrorist Attack.*
- **Action Taken:**
 - *Presented Results to Senior Advisory Committee, August 2001.*
 - *The Joint Staff Representative agreed that JCS would be a More Appropriate Sponsor.*
 - *JCS Provided Emergency Congressional Response Funding.*
 - *JAT/FP Accelerating Delivery of their Planning Tools to Installations.*



Joint Shipboard Helicopter Integration Process (JSHIP)

- **Current OSD Joint Test & Evaluation Program Chartered July 1998 to Improve Helicopter Shipboard Interoperability:**
 - *Focus on Process Development for Army, Air Force, and Special Operation Forces (SOF) Helicopters on USN Ships.*
 - *Certify Sufficient Helicopter and Ship Pairings to Fully Develop the Process During At-Sea Tests.*
- **Creates Useful Products for Our Warfighter in the Areas of:**
 - *Compatibility / Interoperability.*
 - *Deployment / Pre-Deployment and Ordnance Procedures.*
 - *Simulation and Pilot Shipboard Training.*



JSHIP Supporting OPERATION ENDURING FREEDOM

- **JSHIP Requested to Support USS KITTY HAWK / Special Operations Forces Shipboard Operations**
- **Two Team Members Supported Shipboard Helicopter Operations in Theater (2 Weeks in November 2001)**
- **JSHIP Provided Test and Operational Experience**



JSHIP Supporting OPERATION ENDURING FREEDOM

- **JSHIP Products In Use:**
 - *Technical Test Reports Recommendations and Conclusions:*
 - » **JSHIP Conducted 2 Previous CV / CVN Tests.**
 - » **Key Compatibility, Procedures, and Training Issues Identified / Addressed.**
 - *Flight Deck Multiple Software Provided (Determine Allowable Combinations of Helicopter With a Ship).*
 - *Helicopter Electromagnetic Vulnerability Assessment.*
 - *Aviation Commands Using Specialized Products Developed by JSHIP (Pilot Handbook, Checklists, Planning Guides).*
- **Maintaining Liaison with SOCOM Planners and Units**
- **Publishing Valuable Lessons Learned (Operationally and Technically)**



OTHER RELATED PARTICIPATION

- **Supported NAVAIR / NAVSEA Requirement to Recommend Ship Replacement Alternatives to Chief of Naval Operations (CNO):**
 - *Provided Operational and Test Information for Appropriate Ship Configuration.*
 - *JSHIP was Only Participant with Recent Experience.*
- **Short-Term Navy Cell Initiated:**
 - *JSHIP Requested to Participate in OPNAV Afloat Staging Base Working Group Regarding Helicopter/ Shipboard Operations.*
 - *JSHIP Helped Solve Interoperability Issues (Including Flight / Hanger Deck Spotting Assistance).*



BOTTOM LINE

- **The Traditional T&E Model Does Not Work:**
 - *Need to Think Differently.*
 - *Need to be Responsive.*
 - *Need to be Involved.*
- **JT&E Program may be a Good Venue to Consider**
- **A Word of Caution—In our Zeal to Field Systems Early**
 - "Smart Testing" Will Continue to be an Essential Tool to Manage Risk, and it Must not be Neglected.**